

Notice of Allowability

Application No.

09/915,260

Examiner

Pedro J. Cuevas

Applicant(s)

PONG, TA-CHING

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on June 28, 2004.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 27 July 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page5-10, filed June 28, 2004, with respect to claims 1-15 have been fully considered and are persuasive. The rejections of claims 1-15 have been withdrawn.

Terrone teaches the construction of a rotor for an electrical machine comprising a disc-shaped flat metal rotor including two axially opposite principal surfaces and a plurality of slots that extend completely into at least one of the peripheral surfaces and that are distributed around a single axis of rotation of the rotor in a generally circular configuration, said rotor being arranged to rotate around the single axis of rotation.

Dauwalter teaches the construction of magnetic actuator and position control system for driving a part of an apparatus comprising a stator including a plurality of coil means positioned near the rotor along at least a portion of the periphery of the motor to cause rotation of the rotor by magnetic interaction therewith.

Rossi teach the construction of a tachometer for electric machines having energy controlling commutation means for detecting a position of said slots in order to detect a position of said rotor relative to said coils, and causing current to pass through said coil means based on the detected position of said slots, wherein said rotor is the part of the apparatus to be driven by the motor.

Allowable Subject Matter

2. Claims 1-15 are allowed.
3. The following is an examiner's statement of reasons for allowance.

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The prior art does not teaches the construction of a flat induction motor for driving an apparatus as described on independent claims 1, 5, and 9, comprising:

a disc-shaped flat metal rotor (claim 1);

a flat metal induction motor comprising a metal plate bent into a circular shape (claim 5);

including two axially opposite principal surfaces and a plurality of slots that extend into at least one of the principal surfaces and that are distributed around a single axis of rotation of the rotor in a generally circular configuration;

a flat metal induction motor comprising a metal plate having a ring shape and including a plurality of slots that extend into the rotor that are distributed around the rotor (claim 9); and

energy controlling commutation means for controlling driving of the rotor by: detecting a position of said slots in order to detect a position of said rotor relative to said coils, and causing current to pass through said coil means based on the detected position of said slots (claims 1, 5, and 9).

Dependent claims 2-4, 6-8, and 10-15 are considered allowable by their respective dependence on allowed independent claims 1, 5, and 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro J. Cuevas
July 9, 2004


JOSEPH WAKS
PRIMARY EXAMINER